

Notice of Allowability

Application No.

09/820,989

Examiner

Christopher O. Onuaku

Applicant(s)

HIROSAWA, YASUHIRO

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to ____.
2. ☒ The allowed claim(s) is/are 1-7.
3. ☐ The drawings filed on ____ are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
- (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 1/6/05.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date <u>1/4/05</u> . |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date <u>3/30/01</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other ____. |

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michael K. Mutter on 1/4/05

The application has been amended as follows:

In the Abstract:

A new Abstract (see attached copy) has been approved to replace the original Abstract.

In the Figures:

Figures 13&14 have been labeled "Prior Art" figures in red as shown in the attached figures.

In the claims:

In claim 7;

line 1, after "reproducing method", -- for information-- has been added;

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line 3, after "an integer) are", "to be" has been canceled;

line 4, after "recording medium," -- comprising: -- has been added;

line 5, before ", on the basis", "wherein" has been deleted, and -- performing -- has been added;

line 8, after "speed reproduction", "is performed" has been deleted.

Allowable Subject Matter

2. Claims 1-7 are allowable over the prior art of record.

3. The following is a statement of reasons for the indication of allowable subject matter:

Regarding claim 1, the invention relates to an information reproducing system/method for obtaining a reproduced image of an n-times speed from a recording medium in which data encoded from video signals are recorded.

The closest references Lane et al (US 5,377,051) disclose video receivers that are capable of receiving commands and/or detecting trick play modes of recorder operation and performing, e.g., error concealment operations in response to the received commands or detected mode of trick play recorder operation, and Takayama et al (US 6,243,529) teach a recording and/or reproducing apparatus in which reproducing characteristics are improved particularly in a slow-speed reproducing mode in which the recorded signals are reproduced from the recording medium running at an average speed lower than in the recording mode.

However, Lane et al and Takayama et al fail to explicitly disclose an information reproducing system having a track format in which information for an n-times speed reproduction (where n indicates an integer) are arranged in advance at predetermined positions on a recording track of a recording medium, where the system comprises control information reproducing means for reproducing a control signal indicating the positional relation of the track recorded in the recording medium, head dislocation detecting means for determining, after a head scanning portion to be reproduced by the head at the n-times speed reproduction and the n-times speed reproduction were set, a dislocation from the track position to be reproduced, and phase control means for controlling the phase relation between the output of the control signal reproducing means and the output of the drum phase signal outputting means, on the basis of the dislocation determined by the head dislocation detecting means.

Regarding claim 5, the invention relates to an information reproducing system/method for obtaining a reproduced image of an n-times speed from a recording medium in which data encoded from video signals are recorded.

The closest references Lane et al (US 5,377,051) disclose video receivers that are capable of receiving commands and/or detecting trick play modes of recorder operation and performing, e.g., error concealment operations in response to the received commands or detected mode of trick play recorder operation, and Takayama et al (US 6,243,529) teach a recording and/or reproducing apparatus in which reproducing characteristics are improved particularly in a slow-speed reproducing mode

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in which the recorded signals are reproduced from the recording medium running at an average speed lower than in the recording mode.

However, Lane et al and Takayama et al fail to explicitly disclose an information reproducing system having a track format in which information for an n-times speed reproduction (where n indicates an integer) are to be arranged in advance at predetermined positions on a recording track of a recording medium, where the system comprises control signal recording/reproducing means for recording/reproducing a control signal indicating the positional relation of the track to be recorded in the recording medium, tracking information generating means for generating information on the dislocation of another track with respect to a track in which the recording data for the n-times speed reproduction to be reproduced at first at the n-times speed reproduction are recorded, and phase control means for controlling the phase relation between the output of the control signal reproducing means and the output of the drum phase signal outputting means, at the n-times speed reproduction on the basis of the dislocation recorded by the recording/reproducing means.

Regarding claim 7, the invention relates to an information reproducing system/method for obtaining a reproduced image of an n-times speed from a recording medium in which data encoded from video signals are recorded.

The closest references Lane et al (US 5,377,051) disclose video receivers that are capable of receiving commands and/or detecting trick play modes of recorder operation and performing, e.g., error concealment operations in response to the

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received commands or detected mode of trick play recorder operation, and Takayama et al (US 6,243,529) teach a recording and/or reproducing apparatus in which reproducing characteristics are improved particularly in a slow-speed reproducing mode in which the recorded signals are reproduced from the recording medium running at an average speed lower than in the recording mode.

However, Lane et al and Takayama et al fail to explicitly disclose an information reproducing method having a track format in which information for an n-times speed reproduction (where n indicates an integer) are to be arranged in advance at predetermined positions on a recording track of a recording medium, where the method comprises wherein, on the basis of the dislocation between the track position to be reproduced by a head at the n-times speed reproduction and the track position to be reproduced after the n-times speed reproduction was set, the n-times speed reproduction is performed by controlling the phase relation between a control signal indicating the positional relation of the recording track and a drum phase signal indicating the phase of the rotary drum.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Higurashi et al (US 5,963,703) teach a method of recording/reproducing packet data, including an apparatus for recording/reproducing packet data.

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Abe et al (US 4,459,620) teach color video reproducing apparatus, including color video signal reproducing apparatus providing a time base corrected color video signal when operated in a normal speed mode or in a non-normal speed mode, such as a stop-motion, slow-motion, fast-motion, or reverse mode.

Ubukata et al (US 5,416,599) teach a magnetic video signal reproducing apparatus which can magnetically record and reproduce video signals.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher O. Onuaku whose telephone number is (703) 308-7555. The examiner can normally be reached on M-F 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Faile can be reached on 703-305-4380. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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PATENT EXAMINER

ABSTRACT

An information reproducing system having a track format in which information for an n-times speed reproduction are arranged in advance at predetermined positions on a recording track of a recording medium, including control signal reproducer for reproducing a control signal indicating the positional relation of the recording track, a rotary drum including a head for reproducing data signals from the recording medium, drum phase signal outputting unit for outputting a signal indicating the rotational phase of the rotary drum, head dislocation detector for determining, after a head scanning portion to be reproduced by the head at the n-times speed reproduction, a dislocation from the track position to be reproduced, and phase controller for controlling the phase relation between the output of the control signal reproducer and the output of the drum phase signal outputting unit, on the basis of the determined dislocation.

FIG. 13 ("Prior Art")

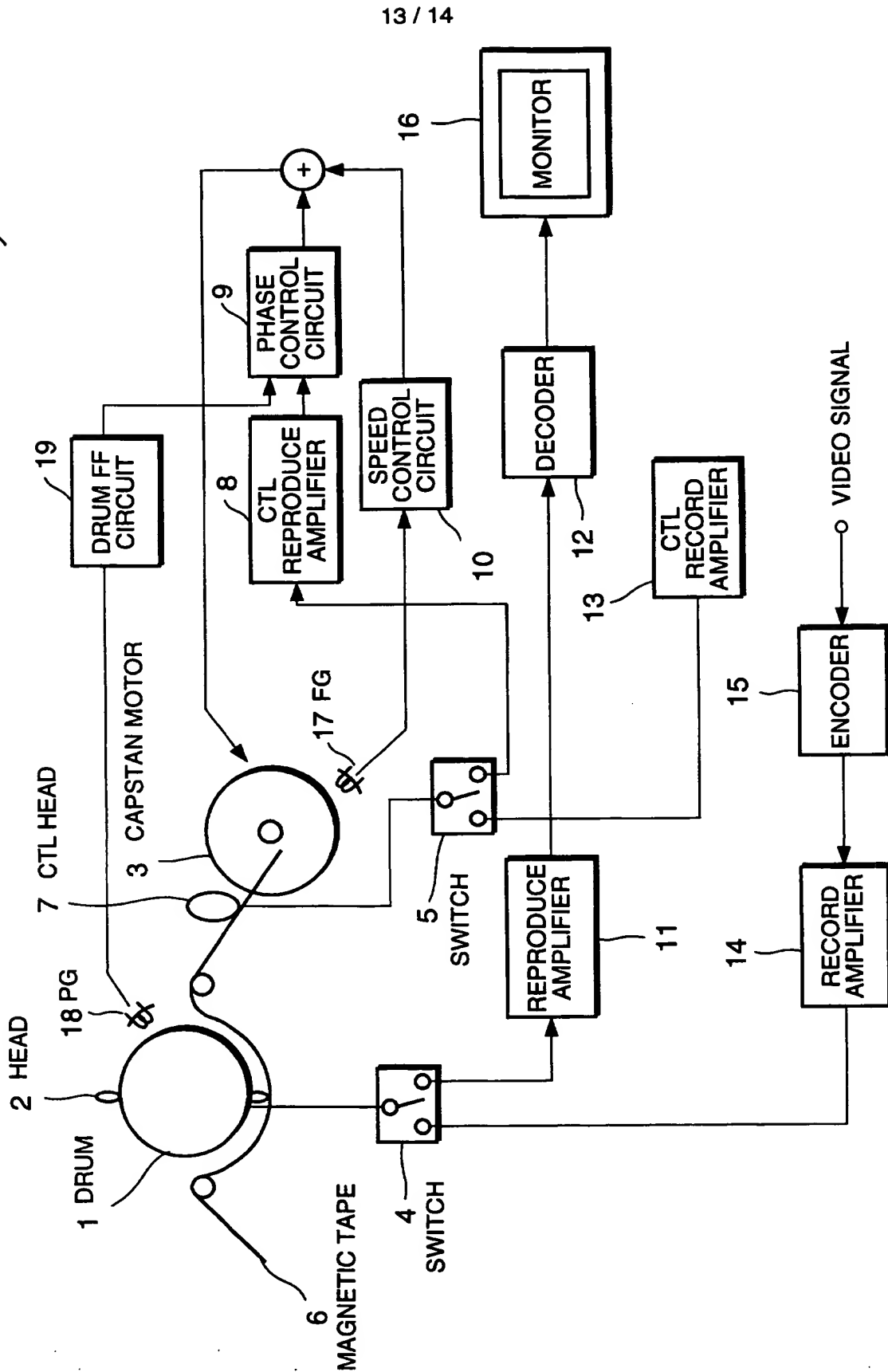


FIG. 14 ("Prior Art")

